

DP-309341/DELP-41

**METHOD OF PREPARATION OF POSITIVE ELECTRODE MATERIAL****Abstract of the Disclosure**

A method for preparing a positive electrode material for a lithium-ion or lithium-ion polymer battery to reduce the moisture content of the positive electrode material. A lithiated transition metal oxide positive electrode material having at least one water-containing compound therein is treated to convert the water-containing compound to a water-free compound. One treatment in the method of the present invention involves exposing the positive electrode material at a temperature of 0-650°C to a CO<sub>2</sub>-containing gas. The other treatment in the method of the present invention involves heating the positive electrode material to a temperature greater than 250°C in the presence of an oxygen-containing gas, such as air and/or O<sub>2</sub>. The treatments may be performed sequentially or concurrently.